

STATISTICAL THEORY AND METHOD ABSTRACTS

INDEX SUPPLEMENT

VOLUME 10 · 1969

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STATISTICAL THEORY AND METHOD ABSTRACTS

COVERAGE OF JOURNAL

THE aim of this journal is to give complete coverage of papers with contributions to the theory and method of mathematical statistics, theory of probability and immediately related subjects.

To this end journals of all parts of the world are scanned for possible papers to be represented and in the case of the following journals, that are largely devoted to statistical theory, the abstracting of papers is done on a complete or virtually complete basis:

Annals of Mathematical Statistics
Annals of the Institute of Statistical Mathematics
Biometrics
Biometrika
Bulletin of Mathematical Statistics
Journal of Applied Probability
Journal of the Indian Statistical Association
Journal of the Royal Statistical Society (Series B)
Metrika
Metron
Sankhyā (Series A)
South African Statistical Journal
Technometrics
Zeitschrift für Wahrscheinlichkeitstheorie und
verwandte Gebiete

In addition to the ordinary journals, there are other kinds of publication which fall within the scope of this journal of abstracts. They are experiment and other research station reports and relevant individual papers in the reports of conferences, symposia and seminars as well as commemorative volumes. Abstracts of the former type of paper will be limited to those of which it is reasonably sure the user can obtain reprints.

ARRANGEMENT OF ABSTRACTS

All abstracts are in the English language. The language of the original paper is indicated. In addition to volume and page numbers of the relevant journal, the numbers of references, tables and figures are stated. Also given is the author's address, if available. This may facilitate contact for discussing the contents of the paper or to request an offprint.

Each issue contains an author index; these are combined to an annual index in this index supplement.

The abstracts are classified according to the 12 main sections of the Classification Scheme, given on pages v and vi, and are printed on coloured paper, each colour corresponding to a main section. Within each main section the abstracts are arranged in alphabetical order. The abstracts bear a primary classification number, indicating the main section and the subsection according to the Classification Scheme. For the most important cross references, secondary classification numbers have been added in brackets.

Each issue contains an Analysis of Secondary Classifications with a listing of all abstracts, arranged in the order of their secondary number. The combined analysis is also published in this supplement.

The format and simple binding allows for the following alternative treatments by users of the journal:

- (a) Leave intact as a shelf-periodical.
- (b) Split for filing in page form according to the main sections of the classification.
- (c) Split and guillotine (single cut) each page for:
 - (i) using in a card-index,
 - (ii) filing in loose leaf or other binders for which the appropriate holes are punched: binding cases are available from the publishers.

STATISTICAL ALGORITHMS

Starting with Volume 10, an index of published algorithms of statistical interest is provided. It will cover all relevant algorithms published from 1960 onwards. In the complete list for this Volume, as published in this supplement, the algorithms are arranged in the order of classification number and are identified by their title and reference number.

SCHEME FOR CLASSIFICATION OF ABSTRACTS

0. MATHEMATICAL METHODS (White)

0. General papers
1. Solution of equations
2. Methods of curve and surface fitting; smoothing
3. Interpolation and quadrature
4. Special functions and transforms
5. Functional relationships
6. Determinantal and matrix analysis
7. Game theory
8. Programming techniques
9. Group and field theory
10. Graph theory and combinatorial analysis
11. Measure theory
12. Optimisation

1. PROBABILITY (Pink)

0. General papers
1. Calculus of probabilities
2. Expected values
3. Combinatorial problems
4. Geometric probability
5. Limit theorems
6. Stochastic convergence
7. Stochastic approximation
8. Decision theory and functions
9. Transforms: Fourier, Laplace, etc.
10. Convolutions
- 11.
- 12.

2. FREQUENCY DISTRIBUTIONS (Green)

0. General papers
1. Descriptive properties
2. Transformations of variates
3. Normal and lognormal
4. Binomial, multinomial and hypergeometric
5. Poisson, exponential, negative binomial, logarithmic and contagious
6. Rectangular, extreme value and Weibull
7. Pearson and "series expansion" distributions
8. Truncated and mixed distributions
9. Multivariate distributions
10. Limit distributions
11. Approximations
12. Other distributions

3. SAMPLING DISTRIBUTIONS (Light Blue)

0. General papers
1. t , z , F and χ^2 distributions
2. Non-central distributions
3. Studentisation
4. Quadratic forms
5. Correlation and regression coefficients
6. Location and scale statistics
7. Shape and other descriptive statistics
8. Order statistics
9. Multivariate problems
10. Limit distributions
11. Linear forms
- 12.

4. ESTIMATION (Yellow)

0. General papers
1. Properties of estimators
2. Types of estimator: Bayes, maximum likelihood, least squares, etc.
3. Individual estimators: point
4. Individual estimators: interval
5. Inequalities; tolerance limits and regions
6. Distribution-free methods
7. Sequential methods
8. Multivariate problems
9. Finite population procedures—surveys
10. Simultaneous estimation
11. Distribution functions and densities
12. Decision theory

5. HYPOTHESIS TESTING (Purple)

0. General papers
1. Properties of test
2. Individual hypotheses
3. Two-sample problem
4. k -sample problem
5. Outliers
6. Distribution-free tests
7. Sequential tests
8. Multivariate problems
9. Types of test: likelihood ratio, Bayes, minimax, etc.
10. Goodness-of-fit tests
11. Combining and comparing tests
12. Decision theory

6. RELATIONSHIPS (Grey)

0. General papers
1. Regression; linear hypothesis, polynomials
2. Correlation inc. canonical correlation
3. Factor methods and principal components
4. Discriminant analysis and cluster analysis
5. Ranking and scaling methods
6. Systems of equations: structure
7. Non-linear equations—logistic
8. Transformed relationships—quantal response
9. Association and contingency
10. Functional relationships
11. Non-standard conditions
12. Other multivariate methods

7. VARIANCE ANALYSIS (Biscuit)

0. General papers
1. Fixed effects model
2. Variance components model
3. Mixed and other models
4. Non-orthogonal data and missing values
5. Non-standard conditions—failure of assumptions
6. Covariance analysis
7. Multiple comparisons; multiple decision procedures
8. Ranked data
9. Sequential methods inc. preliminary tests
10. Combining sets of results
11. Precision of measurement
12. Multivariate models

8. SAMPLING DESIGN (Orange)

0. General papers
1. Simple random; stratified; multi-stage
2. Sampling with unequal probability
3. Multi-phase sampling; double sampling
4. Natural (human, animal and biological) populations
5. Non-sampling problems
6. Censored, systematic and quota sampling
7. Nature and number of units; cost and efficiency
8. Acceptance inspection
9. Process control
- 10.
- 11.
- 12.

9. DESIGN OF EXPERIMENTS (Blue)

0. General papers
1. Block designs; designs for two-way elimination of heterogeneity
2. Factorial arrangements
3. Response surfaces
4. Nature of unit; number of replications; cost and efficiency
5. Paired comparisons and matching problems
6. Preference tests
7. Repeated and sequential experiments
8. Weighing problems
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10. Systematic designs
11. Screening tests
12. Other designs, *e.g.* mixtures

10. STOCHASTIC PROCESSES AND TIME SERIES (Red)

0. General papers
1. Properties of individual process
2. Estimation problems
3. Tests of hypotheses
4. Queueing, storage, risk and congestion theory
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11. Markov processes
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11. MISCELLANEOUS AND SPECIAL TOPICS (Cream)

0. General statistical methodology
1. Statistical tables and charts
2. Probability graph papers
3. Nomograms and graphic methods
4. Machine methods; hand and punched cards
5. Machine methods; electronic digital
6. Machine methods; other
7. Monte Carlo methods
8. Index numbers
9. History, biography and bibliography
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11. Life-testing and reliability
12. Teaching and training methods

As from this volume a slightly revised classification scheme will be in use

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ANALYSIS OF SECONDARY CLASSIFICATIONS

In this index all abstracts appearing in this Volume are listed according to their secondary classification—given in braces at the top of each abstract—if there is any. Abstracts are indicated by their primary classification number (bold) and serial number.

SECONDARY CLASSIFICATION	PRIMARY CLASSIFICATION AND ABSTRACT NUMBER	SECONDARY CLASSIFICATION	PRIMARY CLASSIFICATION AND ABSTRACT NUMBER
0.0	10.9 , 281; 11.5 , 1110	1.5	2.10 , 58; 10.11 , 261; 10.10 , 306; 2.6 , 771; 3.8 , 786; 4.11 , 816; 10.1 , 1027; 2.6 , 1248; 10.1 , 1559; 10.1 , 1571; 11.11 , 1599
0.1	6.7 , 917; 7.4 , 939; 0.12 , 1133; 10.9 , 1489; 11.7 , 1600	1.6	4.1 , 99; 10.1 , 300; 1.5 , 385; 1.0 , 393; 10.5 , 618; 1.4 , 744; 1.5 , 1200; 3.8 , 1249; 10.0 , 1576
0.2	6.1 , 201; 11.10 , 1100	1.7	10.1 , 263; 10.9 , 301; 10.1 , 311; 1.4 , 365; 10.10 , 643
0.3	6.1 , 897	1.8	4.2 , 100; 5.0 , 159; 0.8 , 346; 5.1 , 502; 10.5 , 597; 0.12 , 680; 8.9 , 973; 9.4 , 986; 4.7 , 1315; 5.12 , 1370; 8.9 , 1421; 10.5 , 1548
0.4	2.1 , 59; 2.1 , 69; 2.1 , 77; 6.8 , 192; 10.9 , 265; 10.11 , 282; 10.8 , 599; 0.7 , 1168; 0.11 , 1180; 2.0 , 1234; 2.2 , 1239; 6.1 , 1380; 10.9 , 1459; 10.1 , 1528	1.9	11.10 , 322; 2.0 , 426; 1.0 , 729; 1.5 , 739; 2.6 , 762; 10.6 , 1018; 10.4 , 1037; 10.4 , 1046; 10.1 , 1057; 0.11 , 1120; 2.5 , 1230
0.5	2.9 , 68; 10.11 , 287; 11.10 , 320; 2.4 , 414	1.10	3.3 , 81; 2.5 , 416; 2.1 , 420; 1.5 , 1217
0.6	6.1 , 163; 1.2 , 388; 2.10 , 396; 6.1 , 526; 5.8 , 866; 9.3 , 994; 10.11 , 1039; 3.4 , 1257; 6.1 , 1379; 6.1 , 1399; 10.0 , 1534	2.0	0.3 , 13; 10.1 , 280; 11.3 , 329; 0.11 , 670; 1.9 , 743; 2.4 , 765; 0.11 , 1173; 10.5 , 1527
0.7	1.8 , 373; 1.8 , 391; 10.0 , 1012; 10.1 , 1068	2.1	2.0 , 66; 4.3 , 113; 11.0 , 327; 2.9 , 402; 3.1 , 435; 4.0 , 453; 0.10 , 692; 1.2 , 741; 5.8 , 862
0.8	6.1 , 177; 6.8 , 184; 11.5 , 318; 0.7 , 347; 11.11 , 655; 0.12 , 672; 1.4 , 742; 8.9 , 959; 0.12 , 1121; 0.10 , 1149; 0.12 , 1158; 0.1 , 1178; 5.6 , 1333; 10.11 , 1502; 10.5 , 1541; 11.0 , 1603	2.2	6.2 , 187
0.9	9.1 , 582; 10.1 , 605; 10.1 , 606; 10.6 , 616; 0.4 , 668; 1.9 , 1201; 1.0 , 1214; 4.0 , 1320; 9.1 , 1438; 10.11 , 1558	2.3	8.8 , 216; 11.2 , 323; 2.8 , 425; 3.10 , 443; 3.5 , 792; 8.1 , 948; 11.7 , 1098; 1.9 , 1216; 2.0 , 1237; 4.5 , 1272; 4.3 , 1325; 4.3 , 1326; 9.0 , 1441; 10.0 , 1564
0.10	9.1 , 236; 1.5 , 371; 9.1 , 590; 10.0 , 600; 10.5 , 651; 1.3 , 732; 1.3 , 737; 6.4 , 883; 9.1 , 977; 9.1 , 978; 9.1 , 979; 9.1 , 980; 9.12 , 1437; 9.2 , 1450; 11.5 , 1596	2.4	2.2 , 73; 2.5 , 398; 2.10 , 403; 4.4 , 825; 3.1 , 1260; 4.5 , 1303; 8.1 , 1427
0.11	1.0 , 734; 10.1 , 1464; 10.11 , 1504; 10.11 , 1518; 10.11 , 1519	2.5	0.5 , 3; 1.4 , 41; 3.8 , 85; 4.2 , 106; 4.3 , 107; 4.3 , 111; 2.4 , 423; 11.11 , 659; 2.9 , 764; 2.4 , 773; 3.10 , 793; 4.1 , 805; 10.11 , 1013; 10.11 , 1056; 2.6 , 1228; 4.2 , 1284; 10.4 , 1521
0.12	10.4 , 1042; 0.8 , 1131	2.6	11.7 , 334; 4.1 , 452; 4.3 , 462; 4.11 , 472; 0.2 , 690; 4.3 , 795; 4.1 , 814; 4.3 , 831; 3.11 , 1259; 4.1 , 1279; 10.11 , 1501
1.0	0.8 , 8; 6.4 , 175; 10.8 , 313; 11.9 , 324; 11.9 , 330; 0.1 , 357; 3.6 , 436; 0.4 , 678; 2.6 , 756; 2.3 , 770; 10.0 , 1033; 11.9 , 1113; 0.11 , 1122; 0.11 , 1162; 2.12 , 1246; 10.11 , 1516; 10.1 , 1533	2.7	4.2 , 450
1.1	5.3 , 144; 5.2 , 161; 10.12 , 277; 10.1 , 294; 1.6 , 392; 1.4 , 716; 1.2 , 724; 6.9 , 1387; 10.11 , 1517; 10.9 , 1537	2.8	4.3 , 105; 2.5 , 400; 2.5 , 422; 3.2 , 787; 4.3 , 799; 4.10 , 1292
1.2	2.1 , 768; 1.9 , 1187	2.9	0.4 , 9; 0.4 , 10; 6.2 , 195; 11.0 , 317; 2.3 , 406; 2.5 , 428; 11.3 , 657; 3.1 , 1263; 4.2 , 1323
1.3	9.1 , 237; 9.1 , 250; 0.10 , 691; 0.10 , 699; 1.2 , 1204		
1.4	1.2 , 48; 8.0 , 218; 2.12 , 397; 1.1 , 718; 1.1 , 723; 1.1 , 730; 5.2 , 836		

SECONDARY CLASSIFICATION	PRIMARY CLASSIFICATION AND ABSTRACT NUMBER	SECONDARY CLASSIFICATION	PRIMARY CLASSIFICATION AND ABSTRACT NUMBER
2.10	1.7, 364; 2.12, 421; 2.3, 757; 1.3, 1194	5.2	2.5, 60; 5.0, 152; 5.6, 153; 5.6, 154;
2.11	3.5, 433; 2.1, 751; 3.8, 778; 2.5, 1227;		5.6, 156; 6.9, 885; 6.4, 915; 7.5, 923;
	2.5, 1241; 3.1, 1254; 3.2, 1261; 3.4,	5.3	7.4, 933; 1.4, 1208; 2.0, 1244
	1262		5.8, 149; 5.6, 503; 5.12, 860; 11.11,
2.12	11.11, 1582	5.4	1108; 3.10, 1252; 5.6, 1337; 6.1, 1394
3.0	2.1, 766	5.5	5.6, 491; 5.6, 506; 5.8, 873; 7.8, 931
3.1	5.3, 488; 7.2, 938	5.6	4.10, 476
3.2	3.9, 779; 3.5, 1255		5.7, 143; 5.10, 160; 1.1, 368; 5.8, 489;
3.3	2.1, 71; 3.1, 89; 3.1, 442; 2.7, 760		5.4, 501; 5.3, 509; 7.8, 543; 11.1,
3.4	7.2, 928		1106; 0.10, 1164; 3.10, 1250; 3.10,
3.5	5.2, 841		1251; 4.6, 1319; 5.4, 1346; 5.3, 1356;
3.6	7.7, 209; 4.4, 451; 3.8, 780		5.3, 1358; 6.5, 1392
3.7	4.5, 809	5.7	4.7, 1271; 8.8, 1430; 10.1, 1477
3.8	4.0, 115; 4.3, 116; 1.6, 377; 2.6, 411;	5.8	1.8, 39; 5.6, 155; 6.1, 530; 3.9, 782;
	4.3, 804; 5.5, 1349		6.9, 879; 6.4, 898; 6.4, 905; 4.8, 1275
3.9	2.9, 72; 4.8, 97; 5.8, 142; 11.1, 660;	5.9	1.8, 46; 6.9, 174; 3.9, 432; 5.12, 869;
	3.5, 785; 5.8, 837; 6.3, 891; 7.3, 925		4.2, 1290; 5.4, 1340
3.10	3.8, 438; 5.9, 487; 3.6, 789; 4.1, 1289	5.10	5.6, 872; 3.4, 1265
4.0	1.0, 30; 1.11, 37; 1.1, 40; 4.2, 108;	5.11	4.1, 120; 5.4, 135; 5.1, 490; 5.10, 511;
	0.12, 350; 0.12, 351; 0.3, 354; 3.6,		5.4, 855; 5.9, 856; 5.8, 859; 5.4, 861;
	437; 4.2, 479		7.7, 932; 10.11, 1044; 10.3, 1085; 4.1,
4.1	6.1, 206; 8.2, 225; 1.0, 374; 2.7, 401;	5.12	1281; 5.3, 1341; 5.3, 1363; 5.10, 1367
	4.0, 464; 4.2, 465; 4.3, 478; 5.6, 505;	6.0	5.7, 497; 8.8, 949; 4.12, 1274; 5.9, 1359
	8.0, 555; 8.2, 558; 8.0, 563; 10.2, 644;	6.1	3.4, 781; 6.1, 1391; 11.0, 1591
	3.6, 783; 4.3, 808; 4.2, 824; 4.3, 832;		5.9, 157; 6.10, 202; 9.7, 233; 10.9, 269;
	6.1, 910; 7.0, 936; 8.0, 951; 8.0, 954;		1.8, 370; 9.7, 578; 10.7, 638; 3.11,
	8.0, 967; 8.2, 972; 4.4, 1309; 5.1, 1352;		777; 4.2, 827; 4.3, 833; 5.7, 844; 11.6,
	6.6, 1383		1101; 0.6, 1167; 1.5, 1212; 4.2, 1306;
4.2	1.8, 47; 2.8, 53; 2.8, 54; 4.5, 95; 4.3,	6.2	4.2, 1310; 5.1, 1334; 5.10, 1347; 6.6,
	126; 6.3, 172; 9.2, 232; 11.0, 325;		1378; 6.8, 1393; 9.0, 1440; 9.12, 1444
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	6.1, 534; 4.3, 802; 6.1, 881; 4.12,		4.1, 818; 5.8, 851; 5.2, 852; 6.8, 878;
	1277; 4.8, 1282; 4.3, 1312; 4.7, 1316;		11.9, 1111; 4.2, 1329; 5.2, 1361; 6.9,
	10.2, 1500; 10.9, 1570		1381; 6.9, 1382; 10.6, 1579
4.3	6.7, 191; 9.0, 240; 11.0, 316; 4.1, 468;	6.3	6.0, 889; 3.9, 1253
	3.5, 775; 5.2, 839; 6.8, 908; 7.2, 926;	6.4	6.2, 171; 9.7, 579; 6.3, 890; 6.1, 907;
	7.2, 927; 8.6, 957; 8.0, 960; 8.0, 968;		4.8, 1283; 6.3, 1398
	11.3, 1118; 1.8, 1221; 4.9, 1301; 5.5,	6.5	11.8, 336; 5.12, 845; 5.8, 846; 5.6, 870;
	1332; 5.5, 1373; 6.1, 1386; 11.1, 1589		4.7, 1321; 6.1, 1395
4.4	4.1, 129; 6.4, 183; 6.4, 537; 11.11, 661;	6.6	2.3, 418; 4.1, 1308; 10.7, 1539
	11.11, 1114; 4.11, 1296; 4.8, 1299; 4.5,	6.7	6.1, 540; 6.1, 899; 5.11, 1372
	1328; 5.3, 1336; 7.0, 1413	6.8	9.7, 231
4.6	3.10, 431; 5.6, 854; 7.8, 1406	6.9	2.9, 74; 4.2, 117; 6.2, 179; 3.1, 439;
4.7	10.2, 1089		5.11, 865; 4.5, 1304; 5.6, 1357
4.8	3.9, 84; 6.4, 197; 4.6, 446; 4.2, 469;	6.10	9.7, 984
	7.0, 544; 9.1, 591; 6.4, 886; 8.0, 964;	6.11	4.8, 104; 4.10, 448; 6.1, 882; 6.1, 901
	9.3, 982; 4.4, 1291; 4.7, 1298; 4.12,	7.0	10.9, 268; 11.11, 662; 11.6, 663; 11.5,
	1314; 9.12, 1435; 10.2, 1547		1117
4.9	5.2, 138; 6.3, 541; 8.1, 944	7.1	7.4, 548; 9.7, 569; 4.6, 1268
4.10	8.9, 215; 7.2, 545; 7.2, 547; 4.4, 829	7.2	4.3, 98
4.11	4.8, 121; 10.6, 652; 4.3, 811; 4.6, 817	7.3	7.4, 941
4.12	6.4, 518; 1.8, 731	7.4	7.3, 211; 9.1, 583; 6.9, 1377; 7.3,
5.0	1.8, 45; 4.0, 96; 4.0, 101; 4.0, 124;		1417
	4.0, 455; 5.12, 835	7.5	7.12, 922; 9.1, 990
5.1	5.9, 134; 7.2, 210; 5.11, 496; 5.7, 512;	7.6	7.0, 546
	7.2, 549; 10.11, 604; 5.11, 840; 5.10,	7.7	11.3, 1115; 1.8, 1192
	849; 6.11, 875; 2.0, 1242; 5.8, 1343;	7.8	5.9, 1348
	5.8, 1344; 5.8, 1345; 5.0, 1364; 5.6,	7.10	7.2, 550
	1366	7.12	0.4, 5
		8.0	1.0, 26; 4.9, 118; 5.3, 158; 1.8, 369;
			4.5, 819; 4.9, 1285

SECONDARY CLASSIFICATION	PRIMARY CLASSIFICATION AND ABSTRACT NUMBER	SECONDARY CLASSIFICATION	PRIMARY CLASSIFICATION AND ABSTRACT NUMBER
8.1	4.1, 130; 11.0, 319; 4.3, 470; 8.0, 952; 8.2, 956; 8.4, 1419	10.9	0.0, 6; 3.8, 80; 4.3, 125; 4.3, 132; 5.11, 133; 6.7, 188; 10.11, 262; 2.1, 413; 4.2, 456; 6.8, 536; 10.12, 608; 10.1, 627; 0.0, 686; 3.5, 788; 7.2, 935; 10.11, 1049; 10.12, 1063; 10.12, 1092; 4.4, 1330; 10.12, 1462; 10.10, 1494; 10.2, 1530; 10.12, 1552
8.2	8.0, 553; 8.7, 559; 8.7, 560; 8.1, 1420	10.10	10.9, 298; 11.11, 1105; 1.8, 1193; 10.1, 1491
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NEW STATISTICAL TABLES

This index contains a listing of all those abstracts in this volume concerning papers that contain new statistical tables. Tables presenting data or results of an investigation or illustrations of a new method are not considered.

If the primary purpose of the paper is to present a new table, the abstract will in general be accordingly classified under 11.1. Papers which contain a new statistical table but with main purpose to present a new theory or method of testing, e.g. are classified under the relevant code, with 11.1 as secondary classification or even a different one. Since there always remains some ambiguity in assigning the primary and secondary classification number this index gives a complete list of all such papers, including those classified under 11.1.

0. Mathematical Methods	No.		
Pearson	10/13	0.3	Lagrange interpolation coefficients
1. Probability			
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Laubscher & Rudolph	10/1208	1.4	Uniform distribution on a circle
2. Frequency Distributions			
Bennet & Nakamura	10/55	2.4	Test for randomness
Irwin	10/63	2.7	Series expansion distribution
Bliss & Whitman	10/399	2.2	Transformation of binomial percentages
Maritz & Munro	10/411	2.6	Expectations of order statistics
Sherbrooke	10/422	2.5	Geometric Poisson distribution
Wani	10/429	2.5	Coefficients for computing moments
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Harter	10/1233	2.7	Pearson type III distribution
3. Sampling Distributions			
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Mardia	10/87	3.6	Correlation of ranges
Johnson & Kotz	10/1256	3.4	Quadratic forms
Van Soest	10/1265	3.4	Tests for normal and exponential distribution
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Harman	10/114	4.5	Sample size for tolerance limits
Dixon & Tukey	10/451	4.4	Winsorised t
Herrey	10/459	4.4	Confidence intervals based on mean deviation
Kabir	10/462	4.3	Quantile estimators for Weibull distribution
Mann	10/814	4.1	Estimation Weibull parameters
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Weichselberger	10/832	4.3	Superposition of error and bias
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Van Frankenhuisen	10/511	5.10	Test for normality
Ajne	10/836	5.2	Distribution of points on a circle
Cronholm	10/842	5.10	χ^2 goodness-of-fit
Cronholm	10/843	5.10	Likelihood-ratio goodness-of-fit
Eisenberger	10/848	5.2	Quantiles test for mean and standard-deviation
Pillai & Jayachandran	10/866	5.8	Power of tests for two covariance matrices

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6. Relationships			
Dunn & Varady	10/173	6.4	Ratio correct classification
Sreenath & Sardana	10/540	6.1	Polynomial coefficient for unequal spacings
7. Variance Analysis			
Kramer	10/547	7.2	<i>t</i> -test based on mean deviation
Hanumara & Thompson	10/925	7.3	Characteristic roots of Wishart matrix
Srivastava & Gupta	10/936	7.0	Bias and MSE in variance estimator
Tobach; Smith; Rose & Richter	10/937	7.8	Multiple rank sum test
8. Sampling Design			
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Zeigler & Tietjen	10/976	8.3	Double sampling plans acceptance limits
9. Design of Experiments			
Desu & Sobel	10/1441	9.0	Size of subset for selection problem
10. Stochastic Theory and Time Series Analysis			
Bingham	10/1020	10.3	Mean square successive difference test
Barber	10/1460	10.4	$D_c/M/1$ and $D/E_c/1$ queue parameters
11. Miscellaneous and Special Topics			
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Laubscher; Steffens & De Lange	10/1106	11.1	Mood's test for dispersion

LIST OF ABBREVIATIONS OF NAMES OF JOURNALS

<i>Abh. Dtsch. Akad. Wiss. Berlin</i>	Abhandlungen der Deutschen Akademie der Wissenschaften zu Berlin	Germany
<i>Acta Math. Acad. Sci. Hung.</i>	Acta Mathematica Academiae Scientiarum Hungaricae	Hungary
<i>Acta Math. Sinica</i>	Acta Mathematica Sinica	China
<i>Allg. Statist. Arch.</i>	Allgemeines Statistisches Archiv	Germany
<i>Amer. J. Hum. Genet.</i>	American Journal of Human Genetics	USA
<i>Amer. Math. Monthly</i>	American Mathematical Monthly	USA
<i>Amer. Statistician</i>	American Statistician	USA
<i>Analele Univ. Bucuresti, St. nat. mat.-mec.</i>	Analele Universității București Seria Științele Naturii. Matematică-Mecanică	Romania
<i>Ann. Inst. Statist. Math., Tokyo</i>	Annals of the Institute of Statistical Mathematics	Japan
<i>Ann. Inst. Statist. Math. Supplement, Tokyo</i>	Annals of the Institute of Statistical Mathematics, Supplement	Japan
<i>Ann. Math. Statist.</i>	Annals of Mathematical Statistics	USA
<i>Ann. Soc. Sci. Bruxelles</i>	Annales de la Société Scientifique de Bruxelles	Belgium
<i>Annu. J. Econ. Soc., Nanyang Univ.</i>	Annual Journal of the Economical Society, Nanyang University	Singapore
<i>Ann. Univ. Sci., Budapest (Sect. Mat.)</i>	Annales Universitatis Scientiarum Budapestinensis de Rolano Eötvös Nominatae, Sectio Mathematica	Hungary
<i>Annu. Tech. Conf. Trans., Amer. Soc. Qual. Contr.</i>	Annual Technical Conference of the American Society of Quality Control	USA
<i>An. St. Univ. "Al. I. Cuza" Iasi Sect. Ia Mat.</i>	Analele Științifice ale Universității "Al. I. Cuza" din Iasi Secțiunea I. a. Matematică	Romania
<i>Appl. Statist.</i>	Applied Statistics	Great Britain
<i>Arch. History Exact Sci.</i>	Archive for History of Exact Sciences	Germany
<i>Arch. Math.</i>	Archiv der Mathematik	Germany
<i>Ark. Mat.</i>	Arkiv för Matematik	Sweden
<i>Atti Rium. Sci., Soc. Ital. Statist.</i>	Atti della Riunione Scientifica, Società Italiana di Statistica, Roma	Italy
<i>Aust. J. Statist.</i>	Australian Journal of Statistics	Australia
<i>Bell Syst. Tech. J.</i>	The Bell System Technical Journal	USA
<i>Biometrics</i>	Biometrics	USA
<i>Biometrika</i>	Biometrika	Great Britain
<i>Biom. Zeit.</i>	Biometrische Zeitschrift	Germany
<i>Blä. Dtsch. Ges. Versich.-math.</i>	Blätter der Deutschen Gesellschaft für Versicherungsmathematik	Germany
<i>Brit. J. Phil. Sci.</i>	British Journal for the Philosophy of Science	Great Britain
<i>Bull. Calcutta Statist. Ass.</i>	Bulletin, Calcutta Statistical Association	India
<i>Bull. Inst. Statist. Res. Tr.</i>	Bulletin of the Institute of Statistical Research and Training	Pakistan
<i>Bull. Int. Statist. Inst.</i>	Bulletin of the International Statistical Institute	
<i>Bull. Math. Soc. Sci. Math. R. S. Roumaine</i>	Bulletin Mathématique de la Société des Sciences Mathématiques de la République Socialiste de Roumanie	Romania
<i>Bull. Math. Statist.</i>	Bulletin of Mathematical Statistics	Japan
<i>Bull. Soc. Math. Belg.</i>	Bulletin de la Société Mathématique de Belgique, Gembloux	Belgium
<i>Cahiers Centre Etudes Rech. Opérat.</i>	Cahiers du Centre d'Etudes de Recherche Opérationnelle	Belgium
<i>Cah. ORSTOM, ser. Pédol.</i>	Cahiers Office de la Recherche Scientifique et Technique Outre-Mer	
<i>Calcolo</i>	Calcolo	France
<i>Canad. J. Math.</i>	Canadian Journal of Mathematics	Italy
<i>Canad. Math. Bull.</i>	Canadian Mathematical Bulletin	Canada
<i>Cancer Chemotherapy Rep.</i>	Cancer Chemotherapy Reports	Canada
<i>Cancer Res.</i>	Cancer Research	USA
<i>Colloq. Math.</i>	Colloquium Mathematicum	USA
<i>Comment. phys.-math.</i>	Commentationes Physico-Mathematicae	Poland
<i>Commun. Ass. Comput. Mach.</i>	Communications of the Association for Computing Machinery	Finland
		Great Britain

<i>Computer Bull.</i>	The Computer Bulletin	Great Britain
<i>Computer J.</i>	The Computer Journal	Great Britain
<i>Computing</i>	Computing	Austria
<i>Computing Tech. Center, Tech. Rep.</i>	Computing Technical Center, Technical Report	USA
<i>Council Sci. Indust. Res. (CSIR) Res. Rep.</i>	Council for Scientific and Industrial Research, Research Report	India
<i>C.R. Acad. Sci., Paris</i>	Comptes Rendus de l'Académie des Sciences, Paris	France
<i>CSIRO Div. Math. Statist.</i>	Commonwealth Scientific and Industrial Research Organisation Division of Mathematical Statistics	Australia
<i>Cuad. Estadist. Apl. Invest. Oper.</i>	Cuadernos de Estadística Aplicada e Investigación e Operativa	Spain
<i>Dissertationes Math. Rozprawy Mat.</i>	Dissertationes Mathematicae. Rozprawy Matematyczne	Poland
<i>Econ. J.</i>	Economic Journal	Great Britain
<i>Econometrica</i>	Econometrica	USA
<i>Economica</i>	Economica	Great Britain
<i>The Economics</i>	The Economics	Singapore
<i>Egypt. Statist. J.</i>	Egyptian Statistical Journal	Egypt
<i>Estadíst. Española</i>	Estadística Española	Spain
<i>Estadística</i>	Estadística	USA
<i>Exp. Agric.</i>	Experimental Agriculture	Great Britain
<i>FOA Rep., Stockholm</i>	Försvarets Forskningsanstalt Reports	Sweden
<i>Gac. Mat.</i>	Gaceta Matemática	Spain
<i>G. Ist. Ital. Attuari</i>	Giornale dell'Istituto Italiano degli Attuari	Italy
<i>IEEE Trans. Inf. Theory</i>	IEEE Transactions on Information Theory	USA
<i>Int. Comp. Centre Bull.</i>	International Computer Centre Bulletin	Italy
<i>Israel J. Tech.</i>	Israel Journal of Technology	Israel
<i>Jber. Dtsch. Mathver.</i>	Jahresbericht der Deutschen Mathematikervereinigung	Germany
<i>Jb. Nat. Ökon. Statist.</i>	Jahrbücher für Nationalökonomie und Statistik	Germany
<i>J. Agric. Econ.</i>	Journal of Agricultural Economics	Sweden
<i>J. Agric. Sci.</i>	Journal of Agricultural Science	Great Britain
<i>J. Amer. Statist. Ass.</i>	Journal of the American Statistical Association	USA
<i>J. Animal Econ.</i>	Journal of Animal Ecology	USA
<i>J. Appl. Prob.</i>	Journal of Applied Probability	Great Britain
<i>J. Ass. Comput. Mach.</i>	Journal of the Association for Computing Machinery	Great Britain
<i>J. Aust. Math. Soc.</i>	Journal of the Australian Mathematical Society	Australia
<i>J. Comb. Theory</i>	Journal of Combinatorial Theory	USA
<i>J. Documentation</i>	Journal of Documentation	Great Britain
<i>J. Ecol.</i>	Journal of Ecology	Great Britain
<i>J. Genet.</i>	Journal of Genetics	India
<i>J. Gen. Virology</i>	Journal of General Virology	Great Britain
<i>J. Hyg., Camb.</i>	The Journal of Hygiene	Great Britain
<i>J. Indian Soc. Agric. Statist.</i>	Journal of the Indian Society of Agricultural Statistics	India
<i>J. Indian Statist. Ass.</i>	Journal of the Indian Statistical Association	India
<i>J. Indust. Econ.</i>	Journal of Industrial Economics	Great Britain
<i>J. Inst. Actuar.</i>	Journal of the Institute of Actuaries	Great Britain
<i>J. Inst. Math. Appl.</i>	Journal of the Institute of Mathematics and its Applications	Great Britain
<i>J. Karnatak Univ. Sci.</i>	Journal of the Karnatak University Science	India
<i>J. London Math. Soc.</i>	The Journal of the London Mathematical Society	Great Britain
<i>J. Math. Anal. Appl.</i>	Journal of the Mathematical Analysis and Applications	USA
<i>J. reine angew. Math.</i>	Journal für reine und angewandte Mathematik	Germany
<i>J. Res., Nat. Bur. Stand.</i>	Journal of Research of the National Bureau of Standards	USA
<i>J. R. Statist. Soc.</i>	Journal of the Royal Statistical Society	Great Britain
<i>J. Statist. and Social Inquiry Soc. Ireland</i>	Journal of the Statistical and Social Inquiry Society of Ireland	Ireland
<i>Kodai Math. Sem. Rep.</i>		
<i>Kovové Materiály</i>	Kovové Materiály	Czechoslovakia

<i>Magy. Tud. Akad. III. Oszt. Közl.</i>	Magyar Tudományos Akadémia Matematikai és Fizikai	Hungary
<i>Manchester School</i>	Manchester School of Economic and Social Studies	Great Britain
<i>Math. Comp.</i>	Mathematics of Computation	USA
<i>Mathematika</i>	Mathematika	Great Britain
<i>Math. Gaz.</i>	Mathematical Gazette	Germany
<i>Math. Nachr.</i>	Mathematische Nachrichten	Germany
<i>Math.-Tech.-Wirtschaft</i>	Mathematik-Technik-Wirtschaft Zeitschrift für moderne Rechentechnik und Automation	USA
<i>Matrix Tensor Quart.</i>	The Matrix and Tensor Quarterly	Austria
<i>Mem. Accad. Patavina, Cl. Sci. Mat. Nat.</i>		Great Britain
<i>Metrika</i>	Metrika	Italy
<i>Metron</i>	Metron	Germany
<i>Monatsh. Math.</i>	Monatshefte für Mathematik	Italy
		Germany
<i>Nanta Math.</i>	Nanta Mathematica	Singapore
<i>Nature</i>	Nature	Great Britain
<i>Naval Res. Logist. Quart.</i>	Naval Research Logistics Quarterly	USA
<i>New J. Statist. Operat. Res.</i>	The New Journal of Statistics and Operational Research	Great Britain
<i>Nord. Tidskr. Inf. Behand.</i>	Nordisk Tidskrift for Informations Behandling	Denmark
<i>Normalizace</i>	Normalizace	Czechoslovakia
<i>Numer. Math.</i>	Numerische Mathematik	Germany
<i>Operat. Res.</i>	Operations Research	USA
<i>Operat. Res. Quart.</i>	Operational Research Quarterly	Great Britain
<i>Operat. Res. Verfahren</i>	Operations Research Verfahren/Methods of Operations	Germany
<i>Osaka J. Math.</i>	Osaka Journal of Mathematics	Japan
<i>Phil. Trans. Royal Soc. London</i>	Philosophical Transactions of the Royal Society of London	Great Britain
<i>Portug. Math.</i>	Portugaliae Mathematics	Portugal
<i>Proc. 5th Berkeley Symp. Math.</i>	Proceedings of the Fifth Berkeley Symposium on Mathematical Statistics and Probability	USA
<i>Statist. Prob.</i>		Great Britain
<i>Proc. Camb. Phil. Soc.</i>	Proceedings of the Cambridge Philosophical Society	Japan
<i>Proc. Inst. Statist. Math., Tokyo</i>	Proceedings of the Institute of Statistical Mathematics	
<i>Proc. Int. Symp. Classical and Contagious</i>	Proceedings of the International Symposium on Classical and Contagious Discrete Distributions, Montreal	India
<i>Discrete Distributions, Montreal</i>		Great Britain
<i>Proc. London Math. Soc.</i>	Proceedings of the London Mathematical Society	Great Britain
<i>Proc. Roy. Soc.</i>	Proceedings of the Royal Society	Germany
<i>Psychol. Beiträge</i>	Psychologische Beiträge	USA
<i>Psychometrika</i>	Psychometrika	France
<i>Publ. Inst. Statist., Paris</i>	Publications de l'Institut de Statistique de l'Université de Paris	
<i>Quad. Ist. Univ. Sci., Soc., Trento</i>	Quaderni dell'Istituto Universitario di Scienze Sociali di Trento	Italy
<i>Qualitätskontrolle</i>	Qualitätskontrolle	Germany
<i>Quart. J. R. Met. Soc.</i>	Quarterly Journal of the Royal Meteorological Society	Great Britain
<i>Rep. Central Res. Inst. Physics</i>	Reports of the Central Institute for Physics	Hungary
<i>Rev. Belge Statist. Rech. Opérat.</i>	Revue Belge de Statistique et de Recherche Opérationnelle	Belgium
<i>Rev. Econ. Stud.</i>	Review of Economic Studies	Great Britain
<i>Rev. Française Informatique Rech. Opérat.</i>	Revue Française d'Informatique et de Recherche Opérationnelle	France
<i>Rev. Française Traitement Inf.</i>	Revue Française de Traitement de l'Information	France
<i>Rev. Int. Statist. Inst.</i>	Review of the International Statistical Institute	Netherlands
<i>Rev. Roum. Math. Pures Appl.</i>	Revue Roumaine de Mathématique Pures et Appliquées	Romania
<i>Rev. Statist. Appl.</i>	Revue de Statistique Appliquée	France
<i>S. Afric. Statist. J.</i>	South African Statistical Journal	South Africa
<i>Sankhyā</i>	Sankhyā	India
<i>SIAM J. Appl. Math.</i>	SIAM Journal on Applied Mathematics	USA
<i>Skand. Aktuarietidskr.</i>	Skandinavisk Aktuarietidskrift	Sweden
<i>Statist. Hefte</i>	Statistische Hefte	Germany
<i>Statistician</i>	Statistician	Great Britain
<i>Statist. Neerlandica</i>	Statistica Neerlandica	Netherlands

<i>Statist. Praxis</i>	Statistische Praxis	Germany
<i>Strojirenství</i>	Strojirenství	Czechoslovakia
<i>Strojnický Casopis</i>	Strojnický Casopis	Czechoslovakia
<i>Studia Sci. Math. Hung.</i>	Studia Scientiarum Mathematicarum Hungarica	Hungary
<i>Studia Univ. Babes-Bolyai Math. Phys.</i>	Studia Universitatis Babes-Bolyai Series Mathematica-Physica	Romania
<i>Studii Cercetări Mat.</i>	Studii si Cercetări Matematice	Romania
<i>Technometrics</i>	Technometrics	USA
<i>Tech. Rep. Stanford Univ.</i>	Technical Report, Stanford University	USA
<i>Theory Prob. Appl.</i>	Theory of Probability and its Applications	USA
<i>Trab. Estadística</i>	Trabajos de Estadística y Investigación Operativa	Spain
<i>Transportation Res.</i>	Transportation Research	Great Britain
<i>Trans. 4th Prague Conf. Inf. Theory</i>	Transactions of the fourth Prague Conference on Information Theory	Czechoslovakia
<i>Trans. Soc. Brit. Ent.</i>	Transactions of the Society for British Entomology	Great Britain
<i>Unternehmensforschung</i>	Unternehmensforschung	Germany
<i>US Army Med. Res. Lab. Rep.</i>	United States Army Medical Research Report	USA
<i>USSR Comp. Maths. Math. Phys.</i>	USSR Computational Mathematics and Mathematical Physics	USSR
<i>Yokohama Math. J.</i>	Yokohama Mathematical Journal	Japan
<i>Zastosowania Mat.</i>	Zastosowania Matematyki	Poland
<i>Zeit. angew. Math. Mech.</i>	Zeitschrift für angewandte Mathematik und Mechanik	Germany
<i>Zeit. math. Logik Grundlagen Math.</i>	Zeitschrift für mathematische Logik und Grundlagen der Mathematik	Germany
<i>Zeit. Wahrscheinlichkeitsth.</i>	Zeitschrift für Wahrscheinlichkeitstheorie und verwandte Gebiete	Germany
<i>Ž. Vych. Mat. Mat. Fiz.</i>	Zhurnal Vychislitel'noi Matematiki i Matematicheskoi Fiziki	USSR

BIBLIOGRAPHIC PAPERS

The following index gives a representation of all papers, abstracted in this volume where the number of references exceeds 20.

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Beale	10/1123	0.8	27	Suzuki	10/160	5.10	63
Bhagwandas & Shrikhande	10/1125	0.10	23	Aroian	10/485	5.7	23
Heiss	10/1142	0.7	38	Krishnaiah	10/494	5.8	22
Rao	10/1166	0.6	39	Eaton	10/845	5.12	27
Shepp	10/1171	0.11	30	Hoeffding	10/854	5.6	28
				Hollander	10/855	5.4	21
				Sahler	10/867	5.6	45
				Schmitz	10/868	5.7	26
				Bradley	10/1337	5.6	33
				Lawing & David	10/1353	5.7	21
				Neave & Granger	10/1363	5.3	23
				Rytz	10/1366	5.6	69
				Sen	10/1368	5.6	25
1. Probability				6. Relationships			
Borch	10/24	1.0	50	Gart	10/174	6.9	48
Greenhut	10/29	1.8	29	Mantel	10/186	6.9	21
Kyburg	10/38	1.0	22	Hannan & Terrell	10/525	6.1	22
Samuel	10/45	1.8	24	Jacquez; Mather & Crawford	10/528	6.1	21
Särndal	10/46	1.8	34	Jardine & Sibson	10/529	6.4	36
Walk	10/393	1.0	31	Plackett & Hewlett	10/535	6.8	21
Good	10/717	1.0	47	Sprent	10/539	6.1	30
Good	10/1191	1.9	21	Bhappkar & Koch	10/879	6.9	23
Heyer	10/1201	1.9	36	Jeffers	10/898	6.4	26
				Ku & Kullback	10/903	6.9	39
				Sneath	10/915	6.4	23
				Chetty	10/1378	6.6	21
				Chipman	10/1379	6.1	42
				Watson	10/1402	6.1	25
				Yuji Ijiri	10/1404	6.2	32
2. Frequency Distributions				7. Variance Analysis			
Kemp	10/407	2.5	26	Atiqullah	10/207	7.5	23
Mathai	10/412	2.1	86	Page	10/931	7.8	27
Merat	10/413	2.1	22				
Vukadinović	10/427	2.8	21				
Aigner	10/751	2.1	26				
Kemp	10/1235	2.7	35				
McNolty	10/1240	2.12	32				
3. Sampling Distributions				8. Sampling Design			
Mardia	10/87	3.6	22	Newell	10/223	8.0	22
				Tikkiwal	10/228	8.3	22
				Yang & Hillier	10/229	8.8	21
				Hanurav	10/553	8.0	23
				Žaludová; Režný & Ullrich	10/973	8.9	46
4. Estimation							
Cornell & Speckman	10/106	4.2	22				
Ehrenberg & Twyman	10/110	4.9	37				
Harter	10/115	4.0	105				
Iyengar	10/118	4.9	39				
Sheps	10/128	4.1	33				
Dubey	10/452	4.1	23				
Pike	10/472	4.11	23				
Williams	10/480	4.2	24				
David	10/801	4.3	21				
Choi & Bulgren	10/1273	4.11	22				
Davidson & Bradley	10/1275	4.8	21				
Kabir	10/1292	4.10	21				
Schneiderman	10/1317	4.7	37				
Verhagen	10/1327	4.2	23				
David	10/801	4.3	21				

9. Design of Experiments

	No.		refs.
Hanani	10/243	9.1	23
Armitage	10/1434	9.7	42
Azorin	10/1435	9.12	25
Burdick & Naylor	10/1439	9.3	63

10. Stochastic Processes and Time Series

Abbas	10/251	10.7	45
Good & Toulmin	10/270	10.5	21
Guiaşu	10/271	10.1	79
Li	10/283	10.9	79
Perrin & Sheps	10/298	10.9	27
Shiryayev & Steklov	10/305	10.1	79
Whittle	10/313	10.8	193
Arató	10/596	10.2	23
Fireescu & Tăutu	10/609	10.4	41
Ahlswede	10/1011	10.5	21
Brillinger	10/1022	10.6	21
Daley	10/1029	10.4	21
Hinich	10/1035	10.6	36
Jorgenson	10/1036	10.2	37
Keilson	10/1037	10.4	39
Marcus	10/1052	10.1	56
Mukerji	10/1056	10.11	34
Trybuła	10/1089	10.2	26
Armitage; Meynell & Williams	10/1457	10.9	31

10. Stochastic Processes and Time Series

<i>—continued</i>	No.		refs.
Chernoff	10/1477	10.1	48
Krengel	10/1518	10.11	24
Krickeberg	10/1519	10.11	21
Loynes	10/1524	10.6	33
Mandelbrot	10/1525	10.6	26
Moran	10/1531	10.9	23
Mullikin	10/1533	10.1	30
Pena Trapero	10/1539	10.7	23
Puri	10/1546	10.9	21
Sheps	10/1555	10.9	56
Skellam	10/1556	10.9	25
Strassen	10/1559	10.1	45
Tocher	10/1565	10.5	80
Yaglom	10/1579	10.6	41

11. Miscellaneous and Special Topics

Chambers	10/318	11.5	23
Fisher; Bristow & Henderson	10/319	11.0	36
Mandelbrot	10/327	11.0	22
Pearson	10/330	11.9	44
Naylor; Wertz & Wonnacott	10/663	11.6	57
Brush	10/1097	11.9	137
Sheynin	10/1113	11.9	42
Žáček	10/1118	11.3	34
Jacob	10/1592	11.5	89

STATISTICAL ALGORITHMS

No. 1	Algorithms No.	1/10 to 51/10
2		52/10 to 189/10
3		190/10 to 233/10
4		234/10 to 256/10

All algorithms, listed in this Volume, are given here in the order of their classification number. By means of this number, the reader is referred to the list of algorithms in the relevant issue. An asterisk with the reference number means a revised entry, which is published in Number 4.

0. MATHEMATICAL METHODS

Orthonormalisation [127]	52/10	0.0
Solve $Ax + b = 0$ where A is symmetric and positive definite (Conjugate Gradient method)	1/10	0.1
Solving non-linear simultaneous equations (minimising Euclidean norm of the residuals)	2/10	0.1
Linear least squares solutions by Householder transformations	3/10	0.1
Elimination with weighted row combinations for solving linear equations and least squares problems	4/10	0.1
Iterative refinement of the solution of a positive definite system of equations	5/10	0.1
Solution of real and complex systems of linear equations	6/10	0.1
Solution of polynomial equation (Baird's method) [21]	7/10	0.1
Solve $Ax = b$ and transform $[A, b]$ into its triangular decomposition (Crout's method with pivoting) [16 and 43]	53/10	0.1
Solve system of linear equations whose matrix is tridiagonal [24]	54/10	0.1
Simultaneous system of equations and matrix inversion routine [92]	55/10	0.1
Solve system of linear equations (Gauss' method) [107]	56/10	0.1
Solve system of linear equations (Gauss' method) [126]	57/10	0.1
Solve matrix equation $AX = B$ (Crout's method with equilibration and iteration) [135]	58/10	0.1
		(0.6)
Least squares solution with constraints (simultaneous linear equations) [177]	59/10	0.1
Solve matrix equation $AX = B$ where A is a band matrix of large order [195]	60/10	0.1
		(0.6)
Solve system of simultaneous linear equations (Gauss-Seidel technique) [220]	61/10	0.1
Solve $Ax = b$ (conjugate gradient method) [238]	62/10	0.1
Linear equations, exact solutions [290]	63/10	0.1
Solve N functional equations in N unknowns [314]	*64/10	0.1
Solve system of non-linear equations and minimise sum of squares (damped Taylor's series method) [315]	65/10	0.1
		(0.12)
Solve simultaneous non-linear equations [316]	66/10	0.1
Chebyshev solution to an over-determined system of linear equations [328]	67/10	0.1
Solve linear equations by elimination and partial pivoting [4]	190/10	0.1
Solve linear system (or equations) with a band coefficient matrix [7]	191/10	0.1
Calculate zeros of a polynomial with real coefficients (simple procedure)	192/10	0.1
Calculate zeros of a polynomial with real coefficients (rapid convergence)	193/10	0.1
Solve polynomial equations (Lehmer's method) [11]	194/10	0.1
Solution of system of linear equations (Gaussian elimination) [12]	195/10	0.1
Solution of simultaneous linear Diophantine equations [288]	196/10	0.1
Solve system of linear equations having a symmetric positive definite bandmatrix (Cholesky's method) [1]	197/10	0.1
Automatic calculation of simple root of $F(t) = 0$ with error estimate	198/10	0.1
Zeros of a polynomial [5]	199/10	0.1
Iterative refinement of linear least squares solutions (Householder transformation) [22]	200/10	0.1
Roots of polynomials by a root-squaring and resultant routine [340]	201/10	0.1
Zeros of a real polynomial by resultant procedure [59]	234/10	0.1
Routh-Newton procedure for algebraic equations	235/10	0.1
Rational Chebyshev approximation	8/10	0.2
Rational Chebyshev approximation using interpolation	9/10	0.2
Smoothing by Spline functions	10/10	0.2
Rational Chebyshev approximation	11/10	0.2

Fitting data to an exponential with a straight line as background [33]	12/10	0.2
Least squares fit by orthogonal polynomials [28]	68/10	0.2
Reduce polynomial approximation to polynomial of lower degree [37 and 38]	69/10	0.2
Curve fitting with constraints (method of least squares) [74]	70/10	0.2
Chebyshev curve-fit [91 and 318]	71/10	0.2
Orthogonal polynomial least squares surface fit [164]	72/10	0.2
Least squares surface fit [176]	73/10	0.2
Compute Erlang probabilities for curve fitting [184]	74/10	0.2
Compute normal probabilities for curve fitting [185]	75/10	0.2
		(2.3)
Smoothing (Gram's first-degree three-point formulae) [188]	76/10	0.2
Smoothing (Gram's third-degree five-point formulae) [189]	77/10	0.2
Smooth (fourth-order smoothing by a method of Lanczos) [216]	78/10	0.2
Generalised least squares fit by orthogonal polynomials [296]	79/10	0.2
Exponential curve fit [275 and 295]	202/10	0.2
Constrained exponential curve fit [276]	203/10	0.2
Rational Chebyshev approximation using linear equations	204/10	0.2
Fitting data to an exponentially damped linear function (method of algorithms 12/10 and 202/10) [37]	236/10	0.2
Numerical quadrature by extrapolation	13/10	0.3
Quadrature [1]	80/10	0.3
Rational interpolation by continued fractions [18]	81/10	0.3
Multiple integration [32]	*82/10	0.3
Romberg integration [60]	83/10	0.3
Interpolation (Aitken's iterative scheme) [70]	84/10	0.3
Interpolation, differentiation and integration of functions of one variable [77]	85/10	0.3
Simpson's integration [84]	86/10	0.3
Evaluate definite complex line integrals [98]	87/10	0.3
Simpson's rule integrator [103]	88/10	0.3
Compute abscissae and weight coefficients for Gaussian quadrature [125]	89/10	0.3
Adaptive numerical integration by Simpson's rule [145]	90/10	0.3
Multiple integration [146]	91/10	0.3
Calculate confluent divided differences [167]	92/10	0.3
Newton interpolation with backward divided differences [168]	93/10	0.3
Newton interpolation with forward divided differences [169]	94/10	0.3
Nonrecursive adaptive integraton [182]	95/10	0.3
Adaptive integration and multiple integration [198]	96/10	0.3
Lagrangian interpolation [210]	97/10	0.3
Hermite interpolation [211]	98/10	0.3
Simpson's rule for multiple integration [233]	99/10	0.3
Evaluate function by polynomial interpolation in a table [264A]	100/10	0.3
Chebyshev quadrature [279]	101/10	0.3
Abscissas and weights for Gregory quadrature [280]	102/10	0.3
Abscissas and weights for Romberg quadrature [281]	103/10	0.3
Adaptive quadrature procedure with random panel sizes [303]	104/10	0.3
Gaussian quadrature formulas [331]	105/10	0.3
Simpson numerical integration with variable length of step [2]	205/10	0.3
Evaluate definite integral (Romberg's method) [8]	206/10	0.3
Numerical integration of definite integrals (Håvie integrator [257]	207/10	0.3
Quadrature procedure with error bounds	208/10	0.3
Complex Fourier series (Cooley-Tukey algorithm) [31]	14/10	0.4
Algol procedures for the fast Fourier transform [338]	209/10	0.4
An Algol procedure for the fast Fourier transform with arbitrary factors [339]	*210/10	0.4
The use of orthogonal polynomials [AS10]	237/10	0.4
Convolution procedure based on the fast Fourier transform [345]	238/10	0.4
Fast Fourier transform	239/10	0.4
Reduce symmetric matrix to symmetric tridiagonal matrix (Householder's method)	15/10	0.6
Recover eigenvector system of a symmetric matrix from the eigenvector system of the corresponding symmetric tri-diagonal matrix (Householder's method)	16/10	0.6
Eigenvalues of symmetric matrices (<i>LR</i> -transformation)	17/10	0.6
Invert confluent Vandermonde matrix	18/10	0.6
A quasi-decision algorithm for the <i>P</i> -equivalence of two matrices	19/10	0.6
Calculation of eigenvalues of square matrices of orders up to 100 (Laguerre's method)	20/10	0.6
Symmetric decomposition of positive definite band matrices	21/10	0.6

Symmetric decomposition of a positive definite matrix	22/10	0.6
Inverse of symmetric positive definite matrix (Choleski method) [12]	23/10	0.6
Transform real symmetric matrix to diagonal form (Jacobi method)	24/10	0.6
Permutations of rows or columns of matrix [20]	25/10	0.6
Sort a section of the elements of an array by determining the rank of each element [25]	26/10	0.6
Order the subscripts of an array subsection according to the magnitudes of the elements [26]	27/10	0.6
Rearrange the elements of an array section according to a permutation of the subscripts [27]	28/10	0.6
Solution of band equations and calculation of eigenvectors of band matrices	29/10	0.6
Calculation of eigenvalues of symmetric tridiagonal matrix (bisection method)	30/10	0.6
Eigenvalues of real matrices by the <i>QR</i> method using double <i>QR</i> step [32]	31/10	0.6
Solution to the eigenproblem by a norm reducing Jacobi type method	32/10	0.6
Reduction of the symmetric eigenproblem $Ax = Bx$ and related problems to standard form	33/10	0.6
Rational <i>QR</i> transformation with Newton shift for symmetric tridiagonal matrices	34/10	0.6
Find eigenvalues and eigenvectors of symmetric tridiagonal matrix (<i>QL</i> method)	35/10	0.6
Evaluate determinant by triangularisation [41, 224 and 269]	106/10	0.6
Invert matrix by a series of elementary row operations [42]	107/10	0.6
Invert a finite segment of the Hilbert matrix [50]	108/10	0.6
Adjust inverse of a matrix when an element is perturbed [51]	109/10	0.6
Matrix inversion by Gaussian elimination [58 and 120]	110/10	0.6
Invert a positive definite symmetric matrix (variant of square root method) [66]	111/10	0.6
Store the diagonal and superdiagonal elements of a square symmetric matrix as a pseudo-array (CRAM) [67]	112/10	0.6
Find eigenvalues and eigenvectors of square symmetric matrix (modified Jacobi method) [85]	113/10	0.6
Reduce symmetric bandmatrix to Jacobi form [104]	114/10	0.6
Reduce real symmetric matrix to tridiagonal form (Givens' method) [122]	115/10	0.6
Invert matrix by using elementary row operations [140]	116/10	0.6
Invert symmetric matrix [150]	117/10	0.6
Calculate determinant [159]	118/10	0.6
Compute single row of inverse of matrix (Monte Carlo technique) [166]	119/10	0.6
		(11.7)
Reduce matrix containing polynomial elements [170]	120/10	0.6
Reduce symmetric bandmatrix to triple diagonal form [183]	121/10	0.6
Matrix division (square root method) [197]	122/10	0.6
Exchange rows or columns of a matrix to achieve a rearrangement specified by permutation vectors (Jensen's device) [230]	123/10	0.6
Matrix inversion (Gauss-Jordan method with complete matrix pivoting [231]	124/10	0.6
Eigenvalues of a real symmetric matrix by the <i>QR</i> method [253]	125/10	0.6
Eigenvalues and eigenvectors of a real symmetric matrix by the <i>QR</i> method [254]	126/10	0.6
Find eigenvectors by Gaussian elimination [270]	127/10	0.6
Eigenvalues and eigenvectors of the symmetric system $(A - \lambda B)X = 0$ [297]	128/10	0.6
Determine square-root of positive definite matrix [298]	129/10	0.6
Triangular factors of modified matrices [319]	130/10	0.6
Adjust inverse of symmetric matrix when two symmetric elements are changed [325]	131/10	0.6
Triangular decomposition of a symmetric matrix [AS6]	132/10	0.6
Inversion of a positive-semidefinite symmetric matrix [AS7]	133/10	0.6
Eigenvalues and eigenvectors of real, symmetric matrices: 4 algorithms, as follows: (1) reduction to tridiagonal form by Householder's method; (2) calculation of eigenvalues by Sturm sequences and bisections; (3) inverse iteration for finding the eigenvectors of the tridiagonal matrix; and (4) transformation of eigenvectors to refer to the original matrix [9]	211/10	0.6
Matrix triangulation with integer arithmetic [287]	212/10	0.6
Find eigenvalues of real symmetric tridiagonal matrix	213/10	0.6
Orthonormalisation of vectors (Schmidt's method) [2]	214/10	0.6
Eigenvalues of a complex matrix by the <i>QR</i> method [19]	215/10	0.6
Reduce polynomial matrix to Smith's normal form [20]	216/10	0.6
Transform the inverse of a symmetric matrix by symmetric row and column transformations [6]	217/10	0.6
Inversion of modified symmetric matrices	218/10	0.6
Tridiagonalisation of a symmetric band matrix by a finite sequence of Jacobi rotations	219/10	0.6
Normalising a symmetric matrix [AS11]	240/10	0.6
Sums of squares and products matrix [AS12]	241/10	0.6
A quasi-decision algorithm for the <i>P</i> -equivalence of two matrices	242/10	0.6
Find all eigenvalues and eigenvectors of a real general matrix [343]	243/10	0.6
Matrix scaling by integer programming [348]	244/10	0.6
Similarity reduction of a general matrix to Hessenberg form	245/10	0.6

Find eigenvalues of complex upper-Hessenberg matrix (modified <i>LR</i> algorithm for complex Hessenberg matrices)	246/10	0.6
Find eigenvalues and eigenvectors of a symmetric tridiagonal matrix (implicit <i>QL</i> algorithm)	247/10	0.6
Simulating multidimensional arrays in one dimension [AS1]	134/10	0.8
Connected subgraph with sum of costs a minimum [1]	36/10	0.10
Random combinations of first n integers, k at a time, in ascending order [5]	37/10	0.10
Permutation generator (recursive) [6]	38/10	0.10
Shortest path between start node and end node of network [22]	39/10	0.10
Shortest path between start node and all other nodes of network [23]	40/10	0.10
List of nodes on shortest path from start node to end node of network [24]	41/10	0.10
Permutations of elements of vector in lexicographic order [28]	42/10	0.10
Permutation of elements of vector [29]	43/10	0.10
Fast permutation of elements of vector [30]	44/10	0.10
Algorithm for the assignment problem [27]	135/10	0.10
Chain tracing [69]	136/10	0.10
Produce all permutations of set of consecutive integers from 0 upwards [71]	137/10	0.10
Permute the first n components of an array x [86]	138/10	0.10
Generate the next combination of N integers taken K at a time [94]	139/10	0.10
Derive ancestry relationship from parenthood relationship [96]	140/10	0.10
Find shortest path between two points of a network [97]	141/10	0.10
Permute the first n components of an array x [115]	142/10	0.10
Evaluate a PERT network (iterative) [119]	143/10	0.10
Find path (Warshall's method) [141]	144/10	0.10
Transform column vector of 1's and 0's into another vector with same number of 1's and 0's, but in a different sequence [152]	145/10	0.10
Find the integer solution of a linear programming problem with integer coefficients only (Gomory algorithm) [153 and 263A]	146/10	0.10
Generate, in lexicographical order, the distinct combinations of the first n integers taken r at a time [154]	147/10	0.10
Calculate the number of combinations of m things taken n at a time [160]	148/10	0.10
Calculate all combinations of m things taken from 1 to n at a time [161]	149/10	0.10
Minimum excess cost curve, using Ford-Fulkerson labelling [217]	150/10	0.10
Permutations of a set with repetitions [242]	151/10	0.10
Given a permutation of the first n integers, compute the inverse permutation [250]	152/10	0.10
Calculate the number of partitions of n with parts less than or equal to m [262]	153/10	0.10
Partition generator and inverse procedure [263 and 264]	154/10	0.10
Produce k th permutation on n variables [317]	155/10	0.10
Minimum iterations algorithm for linear programming [333]	156/10	0.10
Generate the next permutation in lexicographic order from a given permutation [87]	220/10	0.10
Generate all permutations of first n integers in lexicographic order [102]	221/10	0.10
Generate the next permutation of the first n elements of an array [130]	222/10	0.10
Generate permutations in lexicographic order [202 and 323]	223/10	0.10
Recognise properties of sequences of symbols (2 algorithms)	224/10	0.10
Tree-processing (3 algorithms)	225/10	0.10
Permutations with repetitions [306]	226/10	0.10
Generation of permutations in pseudo-lexicographic order [308]	227/10	0.10
Solution of linear programs in 0-1 variables by implicit enumeration [341]	228/10	0.10
Determine all maximal, complete subgraphs of a graph (Stoffner's method) [8]	*229/10	0.10
Find minimal paths in a finite, directed, evaluated graph [9]	248/10	0.10
Construct permutations	249/10	0.10
Harmonic analysis for symmetrically distributed data [320]	157/10	0.11
Minimum of $f(x)$ in $a \leq x \leq b$ (Fibonacci search) [2]	45/10	0.12
Position of minimum of $f(x)$ in $a \leq x \leq b$ [7]	46/10	0.12
Given a monotonely increasing sequence of prices, select cheapest subsequence with a given property [81 and 82]	158/10	0.12
Optimal classification of objects (by costs) [83]	159/10	0.12
Find minimum of function of n variables (method of steepest descent) [129]	160/10	0.12
Find minimum of function of n variables (direct search method) [178]	161/10	0.12
Find minimum of differentiable function of n variables (method of steepest descent) [203, 204 and 205]	162/10	0.12
Function minimisation (method of Fletcher and Powell) [251]	163/10	0.12
Function minimisation by conjugate gradients	230/10	0.12
Linear and parametric programming algorithms	231/10	0.12
Linear programming (modified simplex method) [10]	250/20	0.12